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APPLICATION NO.	F	TLING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/885,221 06/20/2001		06/20/2001	Alan E. Moorman	C-2805/5 (PHA 4166.5)	3271
321	7590	09/09/2002			
		RS LEAVITT AN	, EXAMINER		
ONE METI		AN SQUARE	KUMAR, SHAILENDRA		
ST LOUIS, MO 63102				ART UNIT	PAPER NUMBER
				1621	9
				DATE MAILED: 09/09/2002	2

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No. 09/885,221

Applicant(s)

Moorman et al

Examiner

Shailendra Kumar

Art Unit **1621**



	The MAILING DATE of this communication appears	on the cover si	heet with	the correspondence address			
	or Reply						
	ORTENED STATUTORY PERIOD FOR REPLY IS SET MAILING DATE OF THIS COMMUNICATION.	_MONTH(S) FROM					
- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.							
- If the p - If NO p - Failure - Any re	period for reply specified above is less than thirty (30) days, a reply within the seriod for reply is specified above, the maximum statutory period will apply at to reply within the set or extended period for reply will, by statute, cause the ply received by the Office later than three months after the mailing date of the patent term adjustment. See 37 CFR 1.704(b).	nd will expire SIX (6 e application to bec	i) MONTHS frome ABANDO	orn the mailing date of this communication. NED (35 U.S.C. § 133).			
Status							
1) 💢	Responsive to communication(s) filed on Jun 20, 20	001		· ·			
2a) 🗌	This action is FINAL . 2b)	ion is non-fina	ıl.				
3) 🗆	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.						
Disposi	tion of Claims						
4) 💢	Claim(s) 1-30		-	is/are pending in the application.			
4	a) Of the above, claim(s)			is/are withdrawn from consideration.			
5) 🗌	Claim(s)			is/are allowed.			
6) 💢	Claim(s) 1-30			is/are rejected.			
7) 🗌	Claim(s)			is/are objected to.			
8) 🗌	Claims	ar	e subject	to restriction and/or election requirement.			
Applica	tion Papers						
9) 🗌	The specification is objected to by the Examiner.			•			
10)	The drawing(s) filed on is/are	a) 🗆 accept	ed or b)[\square objected to by the Examiner.			
	Applicant may not request that any objection to the de	rawing(s) be h	eld in abe	yance. See 37 CFR 1.85(a).			
11)	The proposed drawing correction filed on	is	s: a)□ a	pproved b) \square disapproved by the Examiner.			
	If approved, corrected drawings are required in reply t	to this Office a	ction.				
12)	The oath or declaration is objected to by the Exami	ner.					
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) [☐ All b)☐ Some* c)☐ None of:						
	1. \square Certified copies of the priority documents have	e been receiv	ed.				
	2. \square Certified copies of the priority documents have	e been receiv	ed in App	lication No			
	 Copies of the certified copies of the priority do application from the International Burea 	au (PCT Rule	17.2(a)).	-			
	ee the attached detailed Office action for a list of the	•					
14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).							
a) U The translation of the foreign language provisional application has been received.							
15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s) 1)							
	tice of Draftsperson's Patent Drawing Review (PTO-948)	_					
	2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s). 6) Other:						
		-,					

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DETAILED ACTION

Claims 1-30 are pending in this application.

Claim Rejections - 35 U.S.C. § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the

manner in which the invention was made.

2. This application currently names joint inventors. In considering patentability of the

claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various

claims was commonly owned at the time any inventions covered therein were made absent any

evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out

the inventor and invention dates of each claim that was not commonly owned at the time a later

invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103©

and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over combined 3.

teachings of Senn-Biifinger, Ruwart, and Lindberg et al.

Instant claims are directed to a method of treating a viral infection in a subject infected

with DNA virus, wherein the subject is administered a therapeutically effective amount of sulfur

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containing (H+/K+) ATPase inhibitor. Benzimidoles are specifically claimed as ATPase inhibitors.

Senn-Biifinger(US 4,472,409) teach structurally similar compounds as claimed herein for inhibiting gastric juice, see columns 1-4. The difference between the reference and herein claimed method is that the reference method of use is the inhibition of gastric juice as against antiviral activity for the claimed compounds. Also, the reference does not mention (H+/K+)ATPase activity for benzimidazole compounds.

Ruwart(US 4,359,465) teach that structurally similar compounds as claimed herein can be used for antiviral agent, similar to those claimed herein. See column 1, lines 48-51, and columns 10-13. Again, the reference does not mention (H+/K+)ATPase activity for benzimidazole compounds.

Lindberg et al(TIPS, 1987) is expressly teaching that benzimidazole, containing sulfur, can be used as (H+/K+)ATPase inhibitor, similar to those claimed herein. See page 400 and 399.

It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to use the compounds of Senn-Biifinger for antiviral activity, as taught by Ruwart, because the latter reference teach that benzimidazole can be used as anti-viral, or alternatively, use the compounds of Senn-Biifinger as ATPase inhibitor, as taught by Lindberg et al, because the reference expressly teach such inhibition using benzimidazole compounds containing sulfur. Thus one of ordinary skill in the art would be motivated to use the compounds

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of Senn-Biifinger as (H+/K+)ATPase inhibitor, for antiviral treatment, as taught by Ruwart and Lindberg et al.

Double Patenting

4. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321© may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

5. Claims 1-30 are rejected under the judicially created doctrine of double patenting over claims 1-17 of U. S. Patent No. 5,945,425 since the claims, if allowed, would improperly extend the "right to exclude" already granted in the patent.

The subject matter claimed in the instant application is fully disclosed in the patent and is covered by the patent since the patent and the application are claiming common subject matter, as follows: The claimed method using benzimidazoles of the instant claims extensively overlap that of the above US patent 5,945,425, especially see claims 1-13 of the above patent, wherein some

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of the claimed compounds read on the instant claimed compounds, e.g. see claims 6-17 of the instant method claims.

Furthermore, there is no apparent reason why applicant was prevented from presenting claims corresponding to those of the instant application during prosecution of the application which matured into a patent. See In re Schneller, 397 F.2d 350, 158 USPQ 210 (CCPA 1968). See also MPEP § 804.

No claim is allowed.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to S.Kumar whose telephone number is (703) 308-4519. The examiner can normally be reached on Monday to Friday from 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Johann Richter, can be reached on (703) 308-4532. The fax phone number for the organization where this application or proceeding is assigned is (703) 308-4556.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1235.

S.Kumar

9/6/02

SHAILENDRA KUMAR **GROUP 1200**